

HISTORIC AMERICAN ENGINEERING RECORD

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BIG CREEK HYDROELECTRIC SYSTEM, POWERHOUSE 8
(Big Creek No. 8)
Confluence of Big Creek and San Joaquin River, about 4.8 miles west
of Big Creek
Big Creek vicinity
Fresno County
California

Photographs CA-167-G-44 through CA-167-G-60 are 8" x 10" contact prints from film copy negatives of digital scan printouts. The paper printouts are approximately 22" x 36". No original drafted line drawings were available for HAER copy work. The scan printouts copied for this project were made from microfilm and other sources. Original materials are held at the Southern California Edison Company archives, 2244 Walnut Grove Avenue, Rosemead, California, 91770.

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David G DeVries, photographer, 2009

CA-167-G-1	Approaching Powerhouse 8 from the service road between Powerhouses 2/2A and 8. View is to the west.
CA-167-G-2	Context view showing Dam 6, Powerhouse 8, and the San Joaquin River. View to north from the Million Dollar Road, about a mile south of Powerhouse 8.
CA-167-G-3	Northeast and northwest elevations from Mammoth Pool Road, also showing Dam 6 and the San Joaquin River. The reservoir has been drained temporarily for service on the tunnels, penstocks, and powerhouses.
CA-167-G-4	Northeast elevation showing tailraces that are normally under water. The access bridge leads directly to the control room.
CA-167-G-5	Northeast elevation.
CA-167-G-6	Detail, northeast access to control room.

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CA-167-G-7	Northeast elevation, tailraces and pool detail.
CA-167-G-8	Oblique view of the upper northwest elevation.
CA-167-G-9	Southwest elevation.
CA-167-G-10	Southeast elevation.
CA-167-G-11	Southeast elevation, detail showing pedestrian entrance, second level roll-up door, and penstock entering powerhouse.
CA-167-G-12	Overall view of generator floor, to northwest, showing Unit 2 in the foreground and Unit 1 in the background.
CA-167-G-13	Generator floor looking southeast, Unit 1 in the foreground and Unit 2 in the background.
CA-167-G-14	Generator floor, southeast end, looking southwest from the east corner.
CA-167-G-15	View of Unit 1, south side.
CA-167-G-16	View of Unit 1, northwest side.
CA-167-G-17	Detail view of Unit 1, northeast side.
CA-167-G-18	Governor control cabinet and oil tanks, looking to northeast from central part of generator floor.
CA-167-G-19	No. 1 station service generator (out of service), north corner of generator floor.
CA-167-G-20	Unit 1 main transformer bank on the generator floor. View to west.
CA-167-G-21	Looking southwest along rail spur corridor (Dam 6 hallway) from northwest end of generator floor.
CA-167-G-22	Looking northeast along rail spur corridor (Dam 6 hallway) from northwest end of generator floor.
CA-167-G-23	Machine shop, looking southwest.
CA-167-G-24	Machine shop, looking northeast.
CA-167-G-25	Cabinets and circuit breakers at northeast entry door to control room, view to northwest. At left, exterior north wall of low voltage switchgear room.

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CA-167-G-26	Control room, overall view to the southwest.
CA-167-G-27	Control room, looking northeast.
CA-167-G-28	Control room, central panel. View to the northwest.
CA-167-G-29	A view to the northeast along the corridor behind the northwest control panel (at right), looking toward the doorway to the low voltage switch gear room.
CA-167-G-30	Low voltage switchgear equipment, looking northwest along the southwest wall.
CA-167-G-31	Relay room door, to be replaced, view to the southwest.
CA-167-G-32	Relay room, showing generator station battery charger with induction motor (on the floor at left), and electronic station battery charger (tall cabinet, at center).
CA-167-G-33	Battery room, located one level above the control room. View to the northwest.
CA-167-G-34	Powerhouse 8 mezzanine overlooking the generator floor. A view to the northeast showing circuit breakers and transformers.
CA-167-G-35	Mezzanine level, southeast part, showing No. 3 station service transformer and circuit breaker at center, jumbo 12 Kilovolt line transformer bank at right, and lubricating oil head tank on the left.
CA-167-G-36	Historic station lighting transformer bank and station crane power transformers, level three mezzanine, west corner.
CA-167-G-37	220 Kilovolt circuit breaker in room CB412, looking to south corner of room.
CA-167-G-38	Circuit breaker room CB412, looking toward north corner of room.
CA-167-G-39	Circuit breaker in room CB422, one level above CB412, looking to east corner of room.
CA-167-G-40	Unit 1 penstock piping and valves in basement, northwest part.

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| CA-167-G-41 | Basement, looking southeast toward enclosure for Unit 1 turbine, from near the humidifier at northwest end. Cooling water strainers are at left, and the No. 1 pressure regulator at right. |
| CA-167-G-42 | Detail of Unit 2 shaft in the basement. |
| CA-167-G-43 | West corner of the basement, showing Dam 6 power transformers from the 1940s. |
| CA-167-G-44 | Big Creek Powerhouse 8, Vicinity map and Operating Area. Fresno County. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1 inch equal to 100 feet. From microfilm. Dated 8/4/1950. Drawing no. 533134. |
| CA-167-G-45 | Big Creek Powerhouse 8, River and West Elevations of Transformer and Generator Buildings. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From microfilm. Dated 3/9/1921. Drawing no. 53240-415. |
| CA-167-G-46 | Big Creek Powerhouse 8, Rear and East Elevations of Transformer and Generator Buildings. Original scale 1/8 inch to the foot. From Microfilm. Dated 3/10/1921. Drawing no. 53239. |
| CA-167-G-47 | Big Creek Powerhouse 8, Extension for Unit 2, Architectural Elevations of Generator Building. Original scale unknown. From microfilm. Date unknown. Drawing no. 515222. |
| CA-167-G-48 | Big Creek Powerhouse 8, Extension for Unit 2, Architectural Elevations for Switch House. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From microfilm. Dated 12/12/1925. Drawing no. 515377. |
| CA-167-G-49 | Big Creek Powerhouse 8, First Floor Plan of Generator Building. Original scale 1/4 inch to the foot. From microfilm. Dated 3/2/1921. Drawing no. 53226. |

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- CA-167-G-50 Big Creek Powerhouse 8, First Floor Plan, Showing Equipment and Piping for Unit 1. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From microfilm. Dated 6/15/1921. Drawing no. 53425.
- CA-167-G-51 Big Creek Powerhouse 8, Second, Third and Fourth Floor Plans of Generator Building. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From microfilm. Dated 3/2/1921. Drawing no. 53227-12.
- CA-167-G-52 Big Creek Powerhouse 8, Basement Floor Plan, Showing Equipment and Piping for Unit 1. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From microfilm. Dated 6/15/1921. Drawing no. 53426.
- CA-167-G-53 Big Creek Powerhouse 8, Cross Sections AA and BB of Generator Building. From microfilm. Drawing no. 21962-415.
- CA-167-G-54 Big Creek Powerhouse 8, Cross Sections HH, JJ, KK, MM, H-N of Transformer Building. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From microfilm. Dated 3/12/1921. Drawing no. 53238.
- CA-167-G-55 Big Creek Powerhouse 8, Cross Section Showing Equipment and Piping for Unit 1. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From microfilm. Dated 6/17/1921. Drawing no. 53427.
- CA-167-G-56 Big Creek Powerhouse 8, Plans 1-1, 2-2, and F-F of Transformer Building. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From microfilm. Dated 4/18/1921. Drawing no. 53235-5.

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- CA-167-G-57 Big Creek Powerhouse 8, Section CC, and Details of Wall, Etc. of Generator Building. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 -2/4-1 1/2 inch to the foot. From microfilm. Dated 3/2/1921. Drawing no. 53234.
- CA-167-G-58 Big Creek Powerhouse 8, General Arrangement of Unit 2 at Elevation 2250. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/2 inch to the foot. From microfilm. Dated 3/2/1929. Drawing no. 517447.
- CA-167-G-59 Big Creek Powerhouse 8, General Arrangement of Unit 2 at Elevation 2230. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/2 inch to the foot. From microfilm. Dated 3/2/1929. Drawing no. 517448-1.
- CA-167-G-60 Big Creek Powerhouse 8, Proposed Arrangement of Unit 2. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From microfilm. Dated 10/5/1927. Drawing no. 515253-1.